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File: USPT

Feb 23, 1993

DOCUMENT-IDENTIFIER: US 5188785 A

TITLE: Apparatus and method of manufacturing synthetic boards including fire-retardant boards

Brief Summary Text (2):

The present invention relates to an apparatus and method of manufacturing synthetic boards and fire-retardant synthetic boards from cellulosic or lignocellulosic furnish materials using an organic binder. The present invention also relates to a fire-retardant synthetic board product comprising cellulosic or lignocellulosic furnish materials, an organic binder and fire-retardant chemicals.

Brief Summary Text (50):

U.S. Pat. No. 3,874,990 to Surdyk discloses a method for producing a flame retardant particle-board or chip-board in which the flame retardant chemicals are added during production of the particle board, prior to mat-forming, and comprise alkaline borate chemicals and flame retardant phosphoric acid-dicyandiamide-formaldehyde resin. The alkaline borate chemicals are added to the wood chips as a dry powder. Such a method does not lend itself to applications in the field of fiberboard production as it would be extremely difficult to achieve a good dispersion of a powder with the fine fiber used. Therefore, there is a need for an apparatus and method for producing a fire-retardant fiberboard in which the fire-retardant compound is incorporated into the board during its production and the product board has the desirable physical characteristics of standard fiberboard, as well as excellent fire-retardant characteristics.

Advised  
MRIBorate  
Phosphate  
Claim  
615 3674<sup>16</sup>

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